

CLAIMS

1. A process for the production of paper printed upon in pattern form, in particular cigarette paper which is impregnated in strip form with fire-inhibiting materials, wherein printing is effected with an aqueous printing solution on a self-supporting paper web characterized in that the printing solution contains water-soluble polymers and the paper is heated to over 50°C prior to or during the printing operation.

2. A process as set forth in claim 1 characterized in that the polymers originate from one or more of the hereinafter listed classes of polyvinyl alcohols, polysaccharides, modified polysaccharides or partially hydrolyzed polyvinyl acetates.

3. A process as set forth in claim 1 or claim 2 characterized in that the temperature is higher than that value at which the polymers precipitate from water.

4. A process as set forth in one of the preceding claims characterized in that the paper is heated to 70 – 90°C prior to or during the printing operation.

5. A process as set forth in one of claims 1 through 4 characterized in that the printing solution is of a viscosity of a maximum of 4000 mPa s at 20°C.

6. A process as set forth in one of claims 1 through 5 characterized in that the paper is of a base weight of 15 – 40 g/m².

7. A process as set forth in one of claims 1 through 6 characterized in that the paper to be printed upon has an absorption height of 6 – 15 mm/10 min, preferably an absorption height of 8 – 13 mm/10 min.

8. A process as set forth in one of the preceding claims characterized in that the operation of printing on the paper is effected after it has left the paper screen and the press portion of a paper machine but before the paper web is rolled up.

9. A process as set forth in claim 8 characterized in that the paper web is printed upon, wherein a contact dryer for the paper web, in roller form, serves as a backing support.

10. A process as set forth in claim 9 characterized in that subsequently to the printing operation the paper web is impregnated over its entire surface area with an aqueous solution.

11. A process as set forth in claim 10 characterized in that the aqueous solution contains fire-promoting means.